

ABSTRACT OF THE DISCLOSURE

A method and apparatus for frame-level, sub-second error reporting is disclosed. Trouble profiles are compiled using synchronous constant-frame error detection and, during a transmission hiatus, pseudo-synchronous constant-frame error detection so as to describe transmission integrity down to the millisecond. This provides profiles that can be used to trace the cause(s) of outages to complex networks including outages from network activity. The outage profiles obtained from the described device can be used to determine and confirm the source of sub-second, or more, transmission outages.